



FACILITY COMPLIANCE AUDIT REPORT

Division of Waste Management

Solid Waste Section

UNIT TYPE:

Lined MSWLF	X	LCID		YW	X	Transfer		Compost		SLAS		COUNTY: JOHNSTON
Closed MSWLF	X	HHW		White goods	X	Incin		T&P		FIRM		PERMIT NO.: 51-03
CDLF	X	Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF		FILE TYPE: COMPLIANCE

Date of Audit: March 18, 2009

Date of Last Audit: January 14, 2009

FACILITY NAME AND ADDRESS:

Johnston County MSWLF and CDLF and Closed MSWLF
680 County Home Road
Smithfield, NC 27577

GPS COORDINATES: N: 35.51113 W: 078.4298

FACILITY CONTACT NAME AND PHONE NUMBER:

Rick Proctor, Solid Waste Manager, Johnston County
919 938 4750, Cell- 919 291 9642, Fax- 919 989 7152, e mail- rick.proctor@johnstonnc.com

FACILITY CONTACT ADDRESS:

Johnston County Landfill
P.O. Box 2263
Smithfield, NC 27577

AUDIT PARTICIPANTS:

Rick Proctor, Solid Waste Manager
Billie T. Thornton- Certified Landfill Manager
Kevin Shields- Solid Waste Compliance Technician
Mary Whaley, NCDENR, Solid Waste Section
Andrew Hammonds, NCDENR, Solid Waste Section
Wes Hare, NCDENR, Solid Waste Section
Dennis Shackelford, NCDENR, Solid Waste Section

Jason Watkins, NCDENR, Solid Waste Section
Pat Backus, NCDENR, Solid Waste Section
Jackie Drummond, NCDENR, Solid Waste Section
Deb Aja, NCDENR, Solid Waste Section
Elizabeth Werner, NCDENR, Solid Waste Section
Donna Wilson, NCDENR, Solid Waste Section
Christine Ritter, NCDENR, Solid Waste Section

STATUS OF PERMIT:

51-03 is a combination of facility permits 51-01 and 51-02
Active, PTO April 3, 2002
Amendment 2 (PTO) 51-03 MSW Phase 4A Cell 2 and C&D Area 1, August 1, 2005
Amendment 3 (PTO) 51-03 C&D Area 2, Cell 1, August 24, 2007
PTC issued MSW Phase 4A, Cell 3 – January 16, 2009
No later than April 24, 2012 subject to review

PURPOSE OF AUDIT:

Comprehensive Landfill Audit

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NOTICE OF VIOLATION:

NONE

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

STATUS OF PAST NOTED VIOLATIONS:

NONE

AREAS OF CONCERN AND COMMENTS:

1. A Comprehensive Landfill Audit Team visited the landfill to conduct the Audit.
2. The permit and operations plans were readily available and were presented in an orderly manner.
3. The financial assurance document was reviewed. The County's letter to the Solid Waste Section was dated November of 2008, for the year 2009.
4. The hours of Operation are M-F, 8:00am – 4:45pm, Sat. 8:00am – 3:30pm, Sun. – Closed.
5. Waste screening records were reviewed and waste screening is being done on about 2% of the waste.
6. The service area for the facility is all of the 100 North Carolina counties.
7. The MSW Landfill is currently accepting 325 tons per day and the C&D Landfill is currently accepting 100 tons per day. The MSW is going into Phase 4A, Cells 1 and 2. The C&D is going into Area 2, Cell 1.
8. The facility is approved to use tarps as an alternative daily cover.
9. The asbestos records were reviewed and the waste is being disposed of in the C&D Landfill.
10. The tire certification records were reviewed and were in order.
11. The Waste Determination records were reviewed and appeared to be in order.
12. The ground water monitoring records were reviewed and the monitoring is being conducted semi-annually as required.
13. The monitoring plans and design hydro plans for both the MSW, dated January, 2002 and C&D dated October, 2005, were reviewed.
14. The methane monitoring data and landfill lagoon analytical data (pH, temperature, and water level readings), both dated February 2009, were reviewed. The methane monitoring is being conducted quarterly as required.
15. The leachate sampling records were reviewed and the sampling is being conducted semi-annually as required.
16. The certified operators are as follows:
 - Richard Proctor- Certified Landfill Manager- expires August 20, 2011.**
 - Billie T. Thornton- Certified Landfill Manager- expires August 31, 2010.**
 - Allen Best- Certified Landfill Manager- expires June 15, 2010.**
 - Rebecca Cheryl Allen- Certified Landfill Operations Specialist- expires November 2, 2010.**
 - Paul L. Foster- Certified Landfill Operations Specialist- expires February 8, 2011.**
 - David Patrick Penny- Certified Landfill Operations Specialist- expires November 2, 2010.**
 - Dale L. Thompson- Certified Landfill Operations Specialist- expires November 2, 2010**
 - Lamar B. Owensby- Certified Landfill Operations Specialist- expires October 3, 2011.**
 - Clinton Heath Otto- Certified Landfill Operations Specialist- expires February 8, 2011.**
 - Eric Griffin- Certified Landfill Operations Specialist- expires November 18, 2010.**
17. There is gravel as a base in the white goods area. Rick Proctor stated that this is a temporary site for the white goods, so a concrete pad has not been established. The County has a new certified person who is removing the CFC's from the white goods. The white goods will be marked as the CFC's are removed. Records were well maintained.
18. The scrap tires are kept in covered trailers.

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19. The access roads and ramps appear to be in good condition and are located in the proper locations. Some of the roads do cross leachate force mains as approved in the engineering drawings.
20. The borrow areas, service roads, service buildings, water lines, offices, drinking water wells and white goods area are all noted on the approved drawings.
21. The leachate cleanouts appear to be intact and show no sign of damage. To date, the leachate lines have not been camera inspected. All of the leachate lines will be camera inspected within the next 9 months, as a requirement of the upcoming PTO permit.
22. The top of the liner at the leachate lagoon is protected and intact. There are small cracks in the concrete above the liner at the top edge, in one small area. **It is strongly recommended that these cracks be monitored and repaired when necessary.**
23. There is no debris in the lagoon and there is no evidence of the 2 foot headboard ever being exceeded.
24. The landfill manager stated that the sediment in the lagoon needs to be removed, but this was not visually evident.
25. One of the leachate pumps is being repaired, but the other pump is working.
26. The leachate head is monitored electronically with sensors in the sump.
27. The facility has a back-up generator for leachate pumping in case of power outages.
28. Several benchmarks were checked. The benchmarks are not shown on the existing drawings. **The benchmarks need to be added to all future drawings**
29. The edge of liner stakes were well maintained along the roadway, but not very clearly marked around the backside of the C&D or around Cell 5 of the MSWLF. Where ever there is liner, **the edge of liner must be clearly marked. This must be done within 30 days of receipt of this audit.**
30. The protective cover over the liner at the MSW and C&D appears to be intact.
31. There appears to be no evidence of waste outside of the edge of the liner.
32. The waste type in the MSWLF was reviewed and is according to permit. No unacceptable waste streams were noted.
33. A waste screening was done at the working face during the inspection. No unacceptable waste was observed.
34. At the time of inspection, Phase 4A, Cell 3, of the MSWLF was being constructed, with the liner being placed.
35. The windblown was not excessive.
36. There are some areas of finger washes and erosion, including Cell 5. **These areas need to be repaired and seeded, within 30 days, to establish ground cover to prevent further erosion.**
37. There are a few trees on the old closed MSW and on Cell 5, that need to be removed.
38. There are several areas of seepage on some of the side slopes, including Cell 5. **The repair of these areas must be done within 30 days of receipt of this audit and there should be continual maintenance and observation of these areas to prevent leachate from going past the liner.**
39. There were a couple of small areas of ponding water on the top of the slope of the MSWLF near the working face and several larger areas on top of the old closed MSWLF. Surface water shall not be impounded over or in waste. **Grade to prevent ponding of surface water.**
40. It is **strongly recommended** that the staging area for the new cell work, be moved from the top of the old closed MSW, to prevent any damage to the cap from occurring.
41. The yard waste area needs to be graded to prevent the ponding of water. Yard waste cannot be in water. In a couple of areas there is ponding water up to the edge of the yard waste. In one area the yard waste is in standing water. **This must be corrected within 30 days of receipt of this audit.**
42. The C&D is lined with a single liner.
43. The working face of the C&D appeared to be small and well compacted.
44. A notation of the date and time of the soil cover placement at the C&D **must be recorded** in the operating record.
45. Monitoring well MW-5A does not have a well identification plate; monitoring well CDMW-7 is not labeled correctly (currently labeled PSW-3); monitoring well CDMW-6 is not labeled correctly (currently labeled PSW-2); monitoring well CDMW-9 is not labeled correctly (currently labeled MW-9); and CDMW-9D is not labeled correctly (currently labeled MW-9D). **The well identification plate and the corrections on the existing labels are to be completed within 30 days of receipt of this audit.**

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46. Monitoring well PZ-9 has been damaged and is no longer being used. It has been replaced with CDMW-9.
Monitoring well PZ-9 shall be securely locked, if the damage does not allow infiltration of ground or surface water, or abandoned in accordance with 15A NCAC 02C .0113, within 30 days of receipt of this audit.
47. Pursuant to 15A NCAC 02C .0108 (c)(7), all wells should be secured to reasonably ensure against unauthorized access and use. Monitoring wells MW-15D and PZ-9 need new padlocks. **The new padlocks are to be installed within 2 days of receipt of this audit.**
48. The following monitoring wells appeared not to have a final grade level concrete protection pad: MW-3, MW-17, MW-7, MW-7D, MW-8A, MW-8D, MW-9C, MW-15D, MW-4B, MW-4D, MW-12B, and CDMW-6. For the protection of the monitoring wells and to prevent precipitation or run-off water from channeling down the sides of the casing, concrete pads must be installed at these wells. Corrections to the pads needs to be underway.
49. One passive methane vent near MW-4B/MW-4D and two passive methane vents labeled A and B near MW-12B must be repaired. The top turbine ventilators that are used to draw the inside air upwards to exhaust are lying on the ground. Efforts to repair the vents need to be completed.
50. **The Facility is being managed well. Good Job!**

Please contact me if you have any questions or concerns regarding this audit report.

Mary Whaley
Environmental Senior Specialist
Solid Waste Section
Regional Representative

Phone: 919-693-5023.

Delivered on : <u>April 1, 2009</u> by		Hand delivery	X	E Mail		Certified No. <u> </u>
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cc: Mark Poindexter, Field Operations Branch Supervisor
Dennis Shackelford, Eastern District Supervisor
Donald Herndon, Compliance Officer
Wendy McNeil, Division Administrative Assistant